

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-327083

(43)Date of publication of application : 22.11.2001

(51)Int.Cl.

H02J 3/32

H01M 10/44

H02J 9/06

(21)Application number : 2000-146834

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(22)Date of filing : 18.05.2000

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(54) POWER STORAGE AND COMPENSATION SYSTEM BY HIGH-TEMPERATURE SECONDARY BATTERY

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a power storage and compensation system by an economical high-temperature secondary battery, having a peak cutting and load leveling function and an electrical power quality stabilizing function.

SOLUTION: A power system 1 and a power storage system consisting of a power load facility 2, a high-temperature secondary battery 3 and an AC/DC converter 4 are connected electrically, thereby the power is supplied to the power load facility 2 from the power system 1 under the normal condition and the power storage system 5 cuts the peak value and executes operations for leveling the load. A high-speed switch 6, which instantaneously senses a drop in the voltage and also instantaneously shuts off a circuit, when the power supplied from the power system 1 is lowered momentarily or fails, is provided between the power system 1, and power storage system 5 and the power is momentarily supplied to the power load facility 2 from the power storage system 5 in order to compensate for momentary reduction in voltage and power failure.

